



## Micro-scale spatial expansion of microbial cells and mobile genetic elements.

Smets, Barth F.; Kreft, Jan-Ulrich; Or, Dani; Dechesne, Arnaud; Gulez, Gamze; Lardon, Laurent; Merkey, Brian; Seoane, Jose; Wang, Gang

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## ISME abstract

### Micro-scale spatial expansion of microbial cells and mobile genetic elements

Microbes can actively explore their local spatial environment when sufficiently hydrated pathways are present - mobile gene elements can also travel in local environments when cellular density is sufficient. In this presentation, I will present our efforts at predicting the dynamics of these two processes, and how they are affected by physical and biological constraints, using spatially-explicit agent-based models.

Author: Barth F. Smets

Coauthors: Jan-Ulrich Kreft, Dani Or, Arnaud Dechesne, Gamze Gulez, Laurent Lardon, Brian Merkey, Jose Seoane, Gang Wang